

Science Grade 5 Scoring Guide for Released Item #15 Ankylosaurus Fall 2006



ANSWER THE FOLLOWING CONSTRUCTED-RESPONSE ITEM IN YOUR ANSWER DOCUMENT.

Selected Data on Dinosaurs

Dinosaur Species	Food Source	Approximate Length (meters)	Time of Existence (millions of years ago)
Allosaurus	Meat	36 – 38	154 – 144
Gigantosaurus	Meat	13 – 15	99 – 95
Chasmosaurus	Plants	5 – 8	76 – 70
Tyrannosaurus Rex	Meat	12 – 13	85 – 65
Edmontosaurus	Plants	12 – 13	73 – 65
Oviraptor	Plants/Meat	2 – 3	88 – 70
Deinonychus	Meat	2 – 3	110 – 100

(3 points)

15 Constructed-Response The chart above provides partial data on several different dinosaurs.

- · Identify one dinosaur that may have preyed upon Ankylosaurus.
- · Explain your choice using two pieces of relevant data from the charts.

NOTHING WRITTEN IN THIS TEST BOOKLET WILL BE SCORED.

Science Rubric for the Ankylosaurus

Selected Data on Dinosaurs

Dinosaur Species	Food Source	Approximate Length (meters)	Time of Existence (millions of years ago)
Allosaurus	Meat	36 – 38	154 – 144
Gigantosaurus	Meat	13 – 15	99 – 95
Chasmosaurus	Plants	5 – 8	76 – 70
Tyrannosaurus Rex	Meat	12 – 13	85 – 65
Edmontosaurus	Plants	12 – 13	73 – 65
Oviraptor	Plants/Meat	2 – 3	88 – 70
Deinonychus	Meat	2 – 3	110 – 100

The chart above provides partial data on several different dinosaurs.

- Identify one dinosaur that may have preyed upon Ankylosaurus.
- Explain your choice using two pieces of relevant data from the charts.

Sample Response:

Tyrannosaurus Rex most likely preyed on Ankylosaurus. It is a meat-eating dinosaur, lived at the same time as Ankylosaurus and was larger than Ankylosaurus.

Oviraptor could have preyed on Ankylosaurus. It eats both meat and plants and it lived during part of the same time as Ankylosaurus.

*If the student identifies an incorrect dinosaur but provides data which indicate some understanding they will receive partial credit (e.g., Chasmosaurus because it lived at the same time as Ankylosaurus).

Scoring Guide:

- 3 The student correctly identifies a potential predator of the Ankylosaurus and explains using two pieces of relevant data from the chart
- 2 The student correctly identifies a potential predator of the Ankylosaurus and explains using one piece of relevant data from the chart OR
 - The student chooses a dinosaur that could not have preyed on the Ankylosaurus but logically explains using two pieces of supporting data (e.g., Edmontosaurus because it is large enough to attack an Ankylosaurus and it lived at the same time).
- 1 The student correctly identifies a potential predator of the Ankylosaurus OR
 - The student chooses a dinosaur that could not have preyed on the Ankylosaurus but logically explains using one piece of supporting data (e.g., Deinonychus because it is a meat-eater).
- 0 The student fails to provide any correct information.

Anchor Paper 1 – Score Point 3

spoints One dinosour I think that may have preved
upon Ankalosourus is Tyrannosourus Rex or Clizard
King). The first I picked Tyrannosourus Rex is that
It lived in the some time period as Ankyloscurus about
65-85 million years ago in the Cretageous Period. The
last reason I picked Tyrannosourus Rex is that it was the
biogest meat enter at the time, as long as 12-13 melers.
Tong. That is why I picked Tyrampasourus Fex the only
meat eating dimosour capable of taking down a full-prom
Ankylasourus.
The End

Anchor Paper 1 Score Point 3

The student correctly identifies one dinosaur that may have preyed on Ankylosaurus (*Tyrannosourus Rex*) and explains using at least two pieces of relevant data from the chart (...it lived in the same time period as Ankylosourus about 65-85 million years ago...) and (...it was the biggest meat eater at the time, as long as 12-13 meters long.), indicating a comparison in size to Ankylosaurus. Large stature is an advantage for a predator.

Anchor Paper 2 – Score Point 3

3 point	
Ovir	aptors eat meat. Amother thing is
it w	Ankielosaurus um.
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Anchor Paper 2 Score Point 3

The student correctly identifies one dinosaur that may have preyed on Ankylosaurus (Oviraptor) and explains using two pieces of relevant data from the chart (... Oviraptors eat meat.) and (...it was also living around the time Ankylosaurus was.).

Anchor Paper 3 – Score Point 3

spoints	he Anky	Tyran	us. I	e preyers Reyers Reyers Reyers Re	015 (was was

Anchor Paper 3 Score Point 3

The student correctly identifies one dinosaur that may have preyed on Ankylosaurus (*Tyrannosaurus Rex*) and explains using two pieces of relevant data from the chart (*Tyrannosaurus Rex was a meat eater...*) and (...it was much bigger than the Ankylosaurus.). Large stature in comparison to Ankylosaurus is an advantage for a predator. Compare to A1.

Anchor Paper 4 – Score Point 2

		# 1			
3 points One Al	nosaur tho	it may	nang t	royed	upon
the ankylosar	us is the	Tyvannos	aurus	rex H	did this
because it eats n	neat.	S. S.			
					
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Anchor Paper 4 Score Point 2

The student correctly identifies one dinosaur that may have preyed on Ankylosaurus *(Tyrannosaurus rex)* and explains using one piece of relevant data from the chart *(...it eats meat.)*.

Anchor Paper 5 – Score Point 2

Ankylosaurus My first choice is that Ankylosaurus is a plant eather like Ovivaptor My second choice it that the Ankylosaurus and ovinaptor poth lived at leach 70 million years ago.					,		ė	
<u> </u>	Ankylo. Ovivarion The A	Saurus Saurus Ston M nkylos	y secon	first plant d cho	cho	ice ice	- lok	tor
	<u>ago.</u>							

Anchor Paper 5 Score Point 2

The student correctly identifies one dinosaur that may have preyed on Ankylosaurus (Oviraptor) and explains using one piece of relevant data from the chart (...Ankylosaurus and Oviraptor both lived at least 70 million years ago.). The statement ...Ankylosaurus is a plant eater like oviraptor is true but does not support the choice. That Oviraptor was a meat eater is not mentioned.

Anchor Paper 6 – Score Point 2

3 points TAllosaurus might have	
preved upon it bemuse it is bigger then Ankylosaurus and hearause it	
Also because it lived up to 194- 154 years	

Anchor Paper 6 Score Point 2

The student chooses a dinosaur that could not have preyed on Ankylosaurus (*Allosaurus*) but logically explains using two pieces of supporting data (...it is bigger then Ankylosaurus and beacause it is a meat eater). Large stature in comparison to Ankylosaurus is an advantage for a predator. The statement *Also because it lived up to 144-154 years* does not support the choice. Ankylosaurus and Allosaurus did not coexist.

Anchor Paper 7 – Score Point 1

3 points	turannaso	wers Riew
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		·
	·	
or Paper 7		

The student correctly identifies one dinosaur that may have preyed on Ankylosaurus (A tyrannosaures Rex).

Anchor Paper 8 – Score Point 1

3 points The one dinosmus may have
been the Deinonychus because it
meters. My two are Ovinaptor, and Chasmosaurus

Anchor Paper 8 Score Point 1

The student chooses a dinosaur that could not have preyed on Ankylosaurus (*Deinonychus*) but logically explains using one piece of supporting data (... it eats meat...). The statement ...the length is 2-3 meters. does not explain why small stature would be an advantage and does not support the choice. The statement *My two are Oviraptor, and Chasmosaurus*. demonstrates a misunderstanding of the task. Selecting more than one dinosaur is incorrect.

Anchor Paper 9 – Score Point 1

2 mins Gimintosaurus benause it eats
meat + livelin close to the same time as the Ankylosaurus.

Anchor Paper 9 Score Point 1

The student chooses a dinosaur that could not have preyed on Ankylosaurus (Gigantosaurus) but logically explains using one piece of supporting data (...it eats meat). The statement ...+ live in close to the same time as the Ankylosaurus. is incorrect. Ankylosaurus and Gigantosaurus did not coexist.

Anchor Paper 10 - Score Point 0

spoints I think that a chasmosouras would be proved upon a Ankylosourus. I think that bicause a Ankylosourus has provide in side his hardy and Achasmosourus eats provide Ato broady a chasmosourus is smaller throw a to know sources.		
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to Kyosnosonos	hadr	and Achasmosqueus ears Plants. Ato
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	+nx.	10 See 11 14 15 .
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Anchor Paper 10 Score Point 0

The student chooses a dinosaur that could not have preyed on Ankylosaurus (chasmosaurus). The statement ...a chasmosaurus eats plants. is true but does not support the choice. Only a meat eater would have preyed on Ankylosaurus. The statement ...chasmosaurus is smaller than a Ankyosaurus. does not explain why small stature would be an advantage and does not support the choice.

Anchor Paper 11 – Score Point 0

spoints I think the dinosour that would of reroyed upon the forest Ankylosourus because in the chart it soid plants/meat. The Ankylosourus was a plant eater and it had meat in it.	
Ankylosourus - because in the chart It said plants/meat. The Ankylosourus was a plant eater and it had	
Ankylosourus - because in the chart It said plants/meat. The Ankylosourus was a plant eater and it had	
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Ankylosouros because in the chart it said plants/meat. The Ankylosouros was a plant eater and it had	,
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was a plant eater and it had	
was a plant eater and it had	1+ Soid Plants/meat. The Ankalasauras
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	Name of the control o

Anchor Paper 11 Score Point 0

The student does not identify a dinosaur that may have preyed on Ankylosaurus. The statement ...it said plants/meat does not refer to a specific dinosaur and demonstrates a misunderstanding of the task.

Anchor Paper 12 – Score Point 0

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Can cat		ands ver	UVERUL	ialded	5
any this	ig exept	plants	makes!	x very	us N
lould no	15e.				
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Anchor Paper 12 Score Point 0

The student does not identify a dinosaur that may have preyed on Ankylosaurus. Describing a dinosaur (A tall dinosaur that nothing can eat..small hands, very very ugly eats any thing exept plants makes a very loud noise.) demonstrates a misunderstanding of the task.